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## (54) ELECTROLUMINESCENT ELEMENT

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(57) Abstract:

PURPOSE: To obtain an electroluminescent element capable of giving luminescence with high luminance over a long period of time even with a low driving voltage by putting an organic compound layer consisting of a specified luminescent material between an anode and a cathode.

CONSTITUTION: A luminescent material shown by formula I (wherein R1 and R2 are each alkyl, a carbocyclic aromatic ring, a heterocyclic aromatic rings, etc.; Ar1 and Ar2 are each a carbocyclic aromatic ring, a heterocyclic aromatic ring, etc.; and (n) is 1, 2 or 3) or formula II (wherein X is CH2CH2, CH=CH, O, S, etc.; R1, R2, R3, and R4 are each alkyl, a carbocyclic aromatic ring, a heterocyclic aromatic ring, etc.; Ar1 is a carbocyclic aromatic ring, a heterocyclic aromatic ring. etc.) (e.g. a compound of formula III or IV) is prepared. An organic compound layer consisting of the luminescent material, if necessary, laminated on an organic compound layer containing other organic

$$\begin{array}{c} R_{\bullet} = N - A r_{\bullet} + CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - A r_{\bullet} - CH = CU \partial_{B} A F_{\bullet} & \vdots \\ \\ R_{\bullet} = N - CU \partial_{B} A F_{\bullet} & \vdots \\ \\$$

**LEGAL STATUS** 

element.

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compound is put between an anode and a cathode, thus producing an electroluminescent

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